

Sale KL-341-2025-W01027-01

District: Klamath/Lake Date: May 10, 2024

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$224,441.99	\$0.00	\$224,441.99
		Project Work:	(\$28,293.25)
		Advertised Value:	\$196,148.74

6/03/24



Sale KL-341-2025-W01027-01

District: Klamath/Lake Date: May 10, 2024

Timber Description

Location:

Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
White Fir	15	0	98
Sugar Pine	1	0	98
Ponderosa Pine	18	0	98
Lodgepole Pine	11	0	95

Volume by Grade	28	3S & 4S 6"- 11"	6" - 11"	16"+	12"-15"	Camprun	Total
White Fir	527	461	0	0	0	0	988
Sugar Pine	0	0	5	13	0	0	18
Ponderosa Pine	0	0	377	345	394	0	1,116
Lodgepole Pine	0	0	0	0	0	53	53
Total	527	461	382	358	394	53	2,175

Comments: Pond Values Used: Local Pond Values, May 2024

Pulp Price: \$0.25 per ton

Log Markets: Klamath Falls and Medford.

Other Costs (no Profit & Risk): None

Other Costs (with Profit & Risk to be added): None

ROAD MAINTENANCE Move-in: \$400.00

General Road Maintenance: 7 miles x \$270 per mile x 1 bladings = \$1,890.00

Total Road Maintenance: \$2,290.00, \$1.05 per Mbf

6/03/24



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Logging Conditions

Combination#: 1 White Fir 100.00%

Sugar Pine100.00%Ponderosa Pine100.00%Lodgepole Pine100.00%

Logging System: Wheel Skidder Process: Feller Buncher

yarding distance: Medium (800 ft) downhill yarding: Yes

tree size: Small / Thinning 10in (90 Bft/tree), 18-20 logs/MBF

loads / day: 12 bd. ft / load: 4800

cost / mbf: \$173.62

machines: Log Loader (B)

Stroke Delimber (B)

Feller Buncher w/ Delimber

Tire Skidder

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Logging Costs

Operating Seasons: 1.00

Profit Risk: 10%

Project Costs: \$28,293.25

Other Costs (P/R): \$0.00

Slash Disposal: \$0.00

Other Costs: \$0.00

Miles of Road

Road Maintenance:

\$1.05

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF / Load
White Fir	\$0.00	4.0	4.8
Sugar Pine	\$0.00	4.0	4.8
Ponderosa Pine	\$0.00	4.0	4.8
Lodgepole Pine	\$0.00	4.0	4.5

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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
White Fir									
\$173.62	\$1.07	\$2.02	\$66.40	\$0.00	\$24.31	\$0.00	\$2.00	\$0.00	\$269.42
Sugar Pine									
\$173.62	\$1.07	\$2.02	\$66.40	\$0.00	\$24.31	\$0.00	\$2.00	\$0.00	\$269.42
Ponderosa	Pine								
\$173.62	\$1.07	\$2.02	\$66.40	\$0.00	\$24.31	\$0.00	\$2.00	\$0.00	\$269.42
Lodgepole Pine									
\$173.62	\$1.10	\$2.02	\$72.91	\$0.00	\$24.96	\$0.00	\$2.00	\$0.00	\$276.61

Specie	Amortization	Pond Value	Stumpage	Amortized
White Fir	\$0.00	\$433.13	\$163.71	\$0.00
Sugar Pine	\$0.00	\$336.94	\$67.52	\$0.00
Ponderosa Pine	\$0.00	\$322.45	\$53.03	\$0.00
Lodgepole Pine	\$0.00	\$320.00	\$43.39	\$0.00

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Summary

Amortized

Specie	MBF	Value	Total
White Fir	0	\$0.00	\$0.00
Sugar Pine	0	\$0.00	\$0.00
Ponderosa Pine	0	\$0.00	\$0.00
Lodgepole Pine	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
White Fir	988	\$163.71	\$161,745.48
Sugar Pine	18	\$67.52	\$1,215.36
Ponderosa Pine	1,116	\$53.03	\$59,181.48
Lodgepole Pine	53	\$43.39	\$2,299.67

Gross Timber Sale Value

Recovery: \$224,441.99

Prepared By: Chris Weekly Phone: 541-883-5681

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Eagle KL-341-2025-W01027-01 *Other Costs*

	Roda Maintenance						
	Move-in cost (grader):	\$400.0	00				
Nur	nber of Miles to be Bladed:		7				
	Number of Bladings:		1				
	Total Miles:		7				
	Miles/Hour for Equipment:	0	.5				
Cost	Hour (grader with operator):	\$135.0	00				
	Total Grading Hours:	1	14				
	Grading Cost:	\$1,890.0	00				
	Total Cost:	\$2,290.0	00				
	Cost/Mbf:	\$1.0	<u></u>				
PP	1,116 Mbf	51%	Average Load	4.0 Mbf	No. of Loads	279	
WF	987 Mbf	45%	Average Load	4.0 Mbf	No. of Loads	247	
LP	53 Mbf	2%	Average Load	4.0 Mbf	No. of Loads	13	
SP	17 Mbf	1%	Average Load	4.0 Mbf	No. of Loads	4	
Total:	2,173 Mbf				Total Loads	543	

Assume: 4 Trucks/Day 3 Trips/Day

12 Loads per Day

45 Hauling Days

Eagle KL-341-2025-W01027-01

Project Costs

Project #1 Road Improvement

Improvement

Move in Cost Cat: \$500

	Points	Distance(ft)	Feet/Hour	Hours	Cost/Hour	Cost
Open/Clear/Shape	A to B	5,966	1000	5.97	\$150.00	\$894.90
Open/Clear/Shape	C to D	1,515	1000	1.52	\$150.00	\$227.25
Open/Clear/Shape	E to F	3,339	1000	3.34	\$150.00	\$500.85
Open/Clear/Shape	G to H	15,211	1000	15.21	\$150.00	\$2,281.65
Open/Clear/Shape	I to J	8,924	1000	8.92	\$150.00	\$1,338.60
	Total	34,955		34.96	_	\$5,243.25
		Move In Costs		\$500.00		
	Impr	ovement Cost		\$5,243.25		
	Pro	oject # 1 Total _		\$5,743.25	_	
		per Mbf		\$2.64	•	

Project #2 Fell, Skid, Deck Submerchantable Material

Total Sub-Sawlog Volume: 77 Mbf

Fell and Skid/MBF: \$70.00

Sort/MBF: \$30.00

Total \$7,700.00 per MBF \$3.54

Landing Slash Piling

Number of Landings: 32

Shovel Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$4,800.00 Cat Time: 1 Hour per Landing Cost per Hour: \$150.00 Total Cost \$4,800.00

Total \$9,600.00 per Mbf \$4.42

Eagle KL-341-2025-W01027-01

Project Costs

Project #2 Summary

Fell, Skid, Deck Submerch. \$7,700.00

Slash Piling

\$9,600.00

Total

\$17,300.00

per Mbf

\$7.96

Project #3 Road Closures and Waterbarring

Road Closures

G, H, E

3 **Number of Closure Points**

\$150.00 Cost per Hour (Cat)

\$450.00 Total \$0.21

per Mbf

Skid Trail Waterbarring

Number of Landings 16

2 Hours per Landing

\$150.00 Cost per Hour (Cat)

\$4,800.00 Total

\$2.21 per Mbf

Project #3 Summary

Road Closures: \$450.00

Waterbarring: \$4,800.00

> Total: \$5,250.00

per Mbf: \$2.42

Cost Summary All Projects

Project No.1 - Road Improvement \$5,743.25

Project No.2 - Fell, Skid, Deck Submerchantable Material \$17,300.00

> Project No.3 - Road Closure and Waterbarring \$5,250.00

> > **Total Cost** \$28,293.25

per Mbf \$13.02

Eagle KL-341-2025-W01027-01 Cruise Report



SALE NAME: Eagle

8421S

LEGAL DESCRIPTION:

Located in Section(s) 1 of T33S, R7½E, Section(s) 25, 35 and 36 T32S, R7½E, Willamette Meridian, Klamath County, Oregon

BOUNDARY LINES:

Property lines are flagged in orange and marked with Timber Sale Boundary tags other sale boundaries are unmarked.

ACREAGE:

Gross Sale Acreage: 739 Acres

Exclusion Acreage: 91 Acres

Net Sale Acreage: 648 Acres

Mapping was accomplished using Avenza pdf Maps with the data processed through ArcMap.

TREATMENT:

Unit 1 of the Timber Sale is a cut tree mark single tree selection with cut trees marked with blue paint. Unit 2 is a leave tree mark single tree selection with leave trees marked with orange paint.

CRUISE METHOD:

Variable plot cruise with a ratio of one count plot for every measure plot.

BASAL AREA FACTOR:

A basal area factor of 10 was used for all variable cruise plots.

PLOT DESIGNATION:

Plot centers were established at every plot with blue flag wire stakes with the corresponding plot number. Blue and white stripped flagging was attached to the nearest available tree branch.

SAMPLE SIZE CALCULATIONS:

CV%	DESIRED SE%	ACRES
90%	12%	648

Number of Plots =
$$\frac{T^2C^2}{A^2}$$

C = Coefficient of Variation in Percent (Taken from inventory data)

T = Number of Standard Errors

A = Desired Sampling Error for a sale of this size and value

$$N = (1)^2(90)^2 = 56 \text{ plots}$$

 $(12)^2$

Measurements and Grading:

- Ratio of one count plot for every measure plot.
- DBH and Height were measured on all "in" trees for measure plots.
- Pulp volume and sawlog volume cruised.
- All trees were graded using the segment system.
- Nested fixed plot cruise for all submerchantable material in unit 2 (5" to 9" DBH).

TREE HEIGHT:

All trees were measured to a fixed diameter outside bark. This height is usually taken as high up the bole as possible, where the cruiser can clearly see the bole, and the taper remains constant (usually 6 or 8 inches). The log segments are broken out and graded accordingly.

MINIMUM D.B.H:

9.0" DBH.

DIAMETER STANDARDS:

1" diameter class

BTR:

Standard ratios were used. See attached species tables.

FORM FACTOR:

Form factor was measured or estimated at 16' for each tree. Each tree was assigned its own FF.

FORM POINT:

All trees were sighted at DBH.

VOLUME COMPUTATION:

All cruise data was input and run at the district on Atterbury's Super Ace program.

FINAL CRUISE RESULTS:

CV%	SE%	Δ	CRES
65.7		8.9	648

TIMBER DESCRIPTION

SAWLOG VOLUME:

This volume was obtained from the variable plot cruise. All material graded camprun. See grade table for minimum standards.

TOTAL SAWLOG VOLUME

Species	Ave. DBH	Acres	Gross Vol/Acre (bf)	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
Ponderosa pine	18.3	648	1,734	1,722	1,116
White fir	14.8	648	1,535	1,523	988
Lodgepole pine	10.6	648	91	82	53
Sugar pine	30.7	648	29	27	18
		Total	3,389	3,354	2,173

GREEN PULP VOLUME:

This volume was obtained from the fixed plot cruise. All material was graded green pulp, see grade table for minimum standards.

FIXED PLOT CRUISE

Species	Ave. DBH	Acres	Net Vol/Acre (bf)	Net Sale Vol (Mbf)
White fir	7.4	60	667	40
Ponderosa pine	8.5	60	333	20
Lodgepole pine	6.4	60	167	10
Shasta fir	8.1	60	111	7
		Total	1,278	77

TOTAL GREEN PULP VOLUME: 77 Mbf

TC TI	LOGST	VВ				Lo	g Stoc	k Tal	ole - M	BF									
						Pro	oject:		EAG	LE									
T032 1	R007	S36	TVA	RI													S36 TV	ARI	
Twp 032	Rg 00	-		ec Tr: 36 190	act		Type VARI		Acres 648.		Plots 55	Samp	le Trees	s	I	Page Date Time	1 6/5/20 1:36:5		
S	So C	ir	Log	Gross	%	Net	%			Net Vol	ume by	Scaling	Diamet	er in Inc	hes				
Spp T	rt d	le	Len	MBF	Def	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
PP PP	CR CR	CR CR	12 16	11 147	2.0	11 144	1.0 12.9			22	53	14	11	11	14	15	16		
PP	CR	CR	20	42	2.0	42	3.8			22	4	14	11	16		l	10		
PP	CR	CR		18		18	1.6				18								
PP PP	CR CR	CR CR		16 889	.5	16 885	1.4 79.3			17	16 113	120	217	139	86	163	28		
PP		Tota	als	1,123		1,116	51.3			40	204	134	227	166	122	178	44		
WF	CR		17	152	3.4	147	14.9			52	29	26	16		24				
WF WF	CR CR	CR CR	27 34	83 760	.3	83 757	8.4 76.7			37 106	26 71	20 94	169	114	113	91			
WF		Tota	als	995		987	45.4			195	126	140	185	114	137	91			
LP	CR CR		16	33	17.3	27	50.9			26	27								
LP LP	CK	Tota	32 als	26 59	9.6	53	49.1			26	27								
SP	CR		32	19	7.4	17	100.0			20	21	5				13			
SP		Tota	als	19	7.4	17	.8					5				13			
Total All	Species			2,196	1.0	2,173	100.0			261	357	278	412	280	259	282	44		

TC TSTATS	S				ST PROJEC	TATIST	ICS EAGLE			PAGE DATE 6	1 5/5/2024
TWP I	RGE	SECT TI	RACT		ТҮРЕ	ACI		PLOTS	TREES	CuFt	BdFt
	007	36 19			VARI		648.00	55	171	1	E
				,	TREES	I	ESTIMATED FOTAL	P.	ERCENT AMPLE	•	
		PLOTS	TREES		PER PLOT		TREES		REES		
TOTAL		55	171		3.1						
CRUISE DBH CO REFORE	UNT	22	82		3.7		14,534		.6		
COUNT BLANKS 100 %		28 5	89		3.2						
100 /0				STAN	ID SUMMA	ARY					
		SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
P PINE		47	8.4	18.3	43	3.6	15.5	1,734	1,722	353	353
WHITE I	F	31	11.9	14.8	37	3.7	14.2	1,535	1,523	336	336
LP PINE		3	2.1	10.6	28	0.4	1.3	91	82	21	21
SUG PIN		1	.0	30.7	76	0.0	.2	29	27	5	5
TOTAL		82	22.4	15.9	38	7.8	31.1	3,388	3,354	716	716
CONFIL		LIMITS OF TH TIMES OUT O		LUME WIL	L BE WITI	HIN THE S	AMPLE ERR	OR			
CL: 6	68.1 %	COEFF			SAMPLE	TREES -	BF	#	OF TREES F	REQ.	INF. POP.
SD:	1.0	VAR.%	S.E.%	LC)W	AVG	HIGH		5	10	15
P PINE		95.1	13.9		321	373	425				
WHITE I		108.5 58.1	19.5 40.2		202 26	250 43	299 61				
SUG PIN		56.1	40.2		20	73	01				
TOTAL		102.7	11.3		283	319	355		421	105	47
CL: 6	68.1 %	COEFF			SAMPLE	TREES -	CF	#	OF TREES F	REQ.	INF. POP.
	1.0	VAR.%	S.E.%	LC)W	AVG	HIGH		5	10	15
P PINE		81.5	11.9		63	71	80				
WHITE I		96.0 48.1	17.2 33.3		42 7	51 11	60 15				
SUG PINE		48.1	33.3		/	11	15				
TOTAL		89.1	9.8		56	63	69		317	79	35
CL: 6	68.1 %	COEFF			TREES/A	CDF		#	OF PLOTS F	PEO	INF. POP.
SD:		VAR.%	S.E.%	LC)W	AVG	HIGH	#	5	10	15
P PINE	2.0	145.4	19.6	200	7	8	10			10	13
WHITE I		167.8	22.6		9	12	15				
LP PINE		373.9	50.4 99.9		1 0	2	3				
SUG PIN TOTAL		741.6 <i>93.6</i>	99.9 12.6		20	22	0 25		350	87	39
CL: 6		COEFF	12.0								
SD:		VAR.%	S.E.%	10	BASAL A)W	AREA/ACE AVG	RE HIGH	#	OF PLOTS F	REQ. 10	INF. POP.
P PINE	1.0	120.6	16.2	LC	13	15	18		J	10	13
WHITE I	F	150.3	20.3		11	14	17				
LP PINE		372.1	50.1		1	1	2				
SUG PIN TOTAL		741.6 <i>6</i> 8. <i>0</i>	99.9 9.2		0 28	0 31	0 34		185	46	21
			9.2				J4 				
CL: 6		COEFF	0.5	· -	NET BF/		HIGH	#	OF PLOTS F	-	INF. POP.
SD: P PINE	1.0	VAR.% 116.0	S.E.% 15.6		0W 1,453	AVG 1,722	HIGH 1,991		5	10	15
WHITE I	F	116.0	19.6		1,453	1,722	1,821				
LP PINE		377.6	50.9		40	82	124				
	JE	741.6	99.9								
SUG PIN TOTAL		65.7	8.9		0	27	53		173		

TC TSTA	ATS				PROJI		PAGE 2 DATE 6/5/2024				
TWP	RGE	SECT	TRA	CT	ТҮРЕ	A	CRES	PLOTS	TREES	CuFt	BdFt
032	007	36	190		VARI		648.00	55	171	1	Е
CL:	68.1 %	COI	EFF		NET C		# OF PLO	INF. POP.			
SD:	1.0	VAl	R.	S.E.%	LOW	AVG	HIGH		5	10	15
CL:	68.1 %	COI	EFF		NET CUFT FT/ACRE				# OF PLOTS REQ.		INF. POP.
SD:	1.0	VAl	R.%	S.E.%	LOW	AVG	HIGH		5	10	15
P PINI	Е	110	5.6	15.7	298	353	409				
WHIT	ΈF	145	5.6	19.6	270	336	402				
LP PI	NE	375	5.3	50.6	11	21	32				
SUG PINE		74	1.6	99.9	0	5	10				
TOTA	AL	65	.1	8.8	653	716	779		169	42	19

